Amendments to the Claims

(original) A memory device having a destructive read process, comprising:
 at least one sector of memory cells within a block of memory;

a metadata block within each of the blocks of memory associated with the sector of memory cells within that block of memory;

a counter within each metadata block, wherein the counter is operable to track usage of the sector of memory cells associated with the metadata block.

- 2. (original) The memory device of claim 1, wherein the memory device further comprises a polymer ferroelectric memory device.
- 3. (original) The memory device of claim 1, wherein the memory device is used as a disk replacement.
- 4. (original) The memory device of claim 1, wherein the memory device is used as a non-volatile cache memory.
- 5. (original) The memory device of claim 1, wherein the metadata block further comprises flags set and reset during cache operations.
- 6. (original) A method of tracking usage of a destructive read memory device, the method comprising:

participating an a memory access cycle;

incrementing a counter producing an incremented counter, wherein the counter is contained in metadata for a block participating in the memory access cycle;

updating a preexisting error correction code producing an updated error correction code, wherein the error correction code includes new data from the memory access cycle and the incremented counter; and

determining if the counter exceeds a predetermined threshold.

7. (original) The method of claim 6, wherein the memory access cycle further comprises:

reading a sector of memory; and

correcting data from the sector of memory as necessary using the preexisting error correction code producing corrected data.

- 8. (original) The method of claim 7, wherein the method further comprises writing the corrected data, the incremented counter and the updated error correction code to the memory block.
- 9. (original) The method of claim 6, wherein the memory access cycle further comprises erasing a sector and reading the counter.
- 10. (original) The method of claim 9, wherein the method further comprises writing new data, the incremented counter, and the updated error correction code to the memory sector previously erased.
- 11. (original) The method of claim 6, wherein incrementing a wear out counter further comprises:

generating a random number;

comparing the random number to a scaling threshold;

incrementing the wear out counter, if the random number is less than the scaling threshold;

writing the wear out counter to a metadata block of a memory.

12. (original) The method of claim 6, wherein incrementing a wear out counter further comprises:

incrementing a second counter for each memory access cycle;

determining if the second counter has reached a value substantially equal to a number of bits for the wear out counter divided by a usage threshold; and

incrementing the wear out counter if the second counter has reached the value.

13. (original) A method of updating a counter, the method comprising:

generating a random number;

comparing the random number to a scaling threshold, wherein the scaling threshold is substantially equal to a number of bits for a counter divided by a usage threshold;

incrementing the counter, if the random number has a predetermined relationship to the scaling threshold;

writing the incremented counter to a metadata block of a memory.

- 14. (original) The method of claim 13, wherein the number of bits for a counter is four.
- 15. (original) The method of claim 13, wherein the predetermined relationship further comprises the random number being less than the scaling threshold.
- 16. (original) A method comprising:
 comparing a random number to a first predetermined threshold according to a
 criterion;

if the random number meets the criterion, incrementing a counter, comparing the incremented counter to a second predetermined threshold; and

if the incremented counter exceeds the second predetermined threshold, taking an action as though the incremented counter exceeds the second predetermined counter multiplied by the first predetermined threshold.

- 17. (currently amended) The method of claim 17 16 further comprising storing the incremented counter.
- 18. (currently amended) The method of claim 17 16, wherein the counter is used in a destructive read memory.
- 19. (currently amended) The method of claim 17 16, wherein the counter is used in a polymer ferroelectric memory.
- 20. (original) A memory device, comprising:at least one block of memory cells;a metadata block associated with each of the blocks of memory cell;

a counter located on the memory device associated with each metadata block, wherein the counter is operable to track usage of the block of memory cells associated with the metadata block.

- 21. (original) The memory device of claim 20, wherein the memory device further comprises a polymer memory device.
- 22. (original) The memory of claim 20, wherein the memory device further comprises a ferroelectric memory device.
- 23. (original) The memory device of claim 20, wherein the memory device is used as a disk replacement.
- 24. (original) The memory device of claim 20, wherein the memory device is used as a non-volatile cache memory.
- 25. (original) The memory device of claim 20, wherein the metadata block further comprises flags set and reset during cache operations.
- 26. (original) A method of tracking usage of a memory device, the method comprising: participating an a memory access cycle;

incrementing a counter producing an incremented counter, wherein the counter is associated with a metadata block for a block participating in the memory access cycle;

updating a preexisting error correction code producing an updated error correction code, wherein the error correction code includes new data from the memory access cycle and the incremented counter; and

determining if the counter exceeds a predetermined threshold.

- 27. (original) The method of claim 26, wherein incrementing a counter further comprises incrementing a hardware counter implemented in logic on the memory device.
- 28. (original) The method of claim 26, the method comprising tracking usage of a polymer memory device.